

ABSTRACT OF THE DISCLOSURE

The present invention provides a human sodium-dependent phosphate cotransporter
5 (NAPTR) and polynucleotides which identify and encode NAPTR. The invention also
provides genetically engineered expression vectors and host cells comprising the nucleic acid
sequences encoding NAPTR and a method for producing NAPTR. The invention also
provides for agonists, antibodies, or antagonists specifically for NAPTR. Additionally, the
invention provides for the use of antisense molecules to polynucleotides encoding NAPTR
10 for the treatment of diseases associated with the expression of NAPTR. The invention also
provides diagnostic assays which utilize the polynucleotide, or fragments or the complement
thereof, and antibodies specifically binding NAPTR. The invention also provides a method
for treating disorders associated with decreased phosphate levels by administering NAPTR
and a method for treating disorders associated with increased phosphate levels by
administering antagonists to NAPTR.